


Verification Report

Verification Opinion

Verified as Satisfactory	
Based on the process and procedures conducted, the GHG statement contained in the GHG Report produced by Ardentec Singapore Pte Ltd	<ul style="list-style-type: none"> The GHG data and emissions inventory provided in the report is materially correct and represents a fair and balanced depiction of emissions across Scope 1, Scope 2, and Scope 3 categories. Emission sources, activity data, and calculation methodologies align with industry-accepted GHG accounting standards and reporting protocols, ensuring accuracy, completeness, consistency, and transparency in the quantification process.
	<ul style="list-style-type: none"> Has been prepared in accordance with ISO14064-1:2018 and its principles
	<p>The ASGP 2024 GHG Inventory Report R1 (Prepared Date: 6 March 2025) has been developed and documented in strict alignment with:</p> <ul style="list-style-type: none"> The Ardentec Singapore Pte Ltd GHG Inventory Management System Manual, which defines internal governance, data collection, monitoring, and emissions reporting processes. The Ardentec Greenhouse Gas Verification Committee, which has reviewed, assessed, and internally assured the data presented in the inventory, ensuring it meets internal and external reporting expectations. <p>The methodologies applied for calculating Scope 1, Scope 2, and Scope 3 emissions are consistent with previous reporting cycles, ensuring comparability across years. All documented emissions calculations, particularly from transportation and supply chain activities, are within the acceptable materiality threshold of 5%, ensuring no material misstatements. Emission factors applied are aligned with internationally recognized sources, ensuring consistency in reporting and benchmarking.</p>
The following improvements were raised in relation to future reporting	<ul style="list-style-type: none"> The Y2025 verification process shall incorporate change management updates, including adjustments to GHG-related SOPs, emission source categorization, and emission factor methodologies to enhance reporting consistency and verification alignment. All excluded emission sources must be clearly documented in the GHG Inventory Report, with justifications and supporting evidence (Appendix) in the SOP to enhance transparency, audit readiness, and ISO 14064-1 compliance. As noted, in Y2025, Ardentec will implement SBTi (Science-Based Targets initiative) across Taiwan, China, and Singapore, introducing an emission factor and location-based methodology with enhanced Scope 3 disclosure requirements. The SOP must be updated to integrate new data collection standards, strengthen verification processes, and ensure data integrity.
Lead Verifier	Dr. Li Yuanzhe
Independent Reviewer	Le Huy Thanh

Signed on behalf of BSI	 Emmanuel Herve Managing Director, ASEAN
Issue Date	20/03/2025
BSI Singapore, 77 Robinson Road, #28-03, Robinson 77 Singapore S068896	
NOTE: BSI Singapore is independent to and has no financial interest in Ardentec Singapore Pte Ltd. This 3 rd party Verification Opinion has been prepared for Ardentec Singapore Pte Ltd only for the purposes of verifying its statement relating to its GHG emissions more particularly described in the scope above. It was not prepared for any other purpose. In making this Statement, BSI Singapore has assumed that all information provided to it by Ardentec Singapore Pte Ltd is true, accurate and complete. BSI Singapore accepts no liability to any third party who places reliance on this statement.	

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Verification Engagement

Organization	Ardentec Singapore Pte Ltd
Responsible party	Ardentec Singapore Pte Ltd Address: 12 Woodlands loop #01-04, #02-00, #03-01-03-04 Singapore 738283
Verification Objectives	The objective of this verification is to express an independent opinion on whether the GHG Statement, which is historical in nature, meets the following criteria: <ul style="list-style-type: none"> • Accuracy & Materiality: The reported emissions are materially correct and provide a fair representation of the organization's GHG data and information. • ISO 14064-1:2018 Compliance: The report is prepared in accordance with ISO 14064-1:2018, ensuring alignment with GHG inventory principles and industry standards. • Internal Governance & Reporting Integrity: The ASGP 2024 GHG Inventory Report R1 (6 March 2025) has been developed and assured by the Ardentec Greenhouse Gas Verification Committee, ensuring internal data validation before verification by BSI.
Materiality Level	5 %
Level of Assurance	Reasonable
Verification evidence gathering procedures	The verification was conducted in accordance with ISO 14064-1:2018 and included the following activities: <ol style="list-style-type: none"> 1. Evaluation of Monitoring & Control Systems <ul style="list-style-type: none"> • Interviews, observations, and inquiries with relevant personnel. • Review of GHG Inventory Management processes to ensure data accuracy and completeness. 2. Verification of Default Values & Emission Factors <ul style="list-style-type: none"> • Cross-referencing default emission factors with publicly available IPCC AR6, EMA, and industry standards. • Verification of location-based and market-based Scope 2 methodologies. 3. Data Sampling & Reconciliation <ul style="list-style-type: none"> • Recalculation and traceability checks for monitored and calculated data. • Sampling-based verification of fuel consumption, electricity usage, transportation data, and supplier emissions reports.

	<ul style="list-style-type: none"> Cross-checking invoices, utility bills, HR commuting data, and supplier emission factors to confirm consistency.
Verification Standards	The verification was carried out in accordance with ISO 14064-1:2018.
<p>Note: Ardentec Singapore Pte Ltd is responsible for the preparation and fair presentation of the GHG statement and report in accordance with the agreed criteria. BSI is responsible for expressing an opinion on the GHG statement based on the verification.</p>	

Organizational GHG Statement

Organization		Organization Name: Ardentec Singapore Pte Ltd Registered Address: 12 Woodlands Loop #01-04, #02-00, #03-01-04, Singapore 738283	
Organizations GHG Report containing GHG Statement		ASGP 2024 GHG Inventory Report R1 (Prepared Date: 6 March 2025) presents Ardentec Singapore Pte Ltd’s GHG inventory, emissions, and removals, aligned with ISO 14064-1:2018. The report quantifies and documents GHG emissions across Scopes 1, 2, and 3, ensuring transparency, accuracy, and compliance with international standards by the Ardentec Greenhouse Gas Verification Committee	
Organizational Boundary		Operational Control	
Scope of activities:			
Reporting Boundary:	Direct GHG Emissions (Scope 1)	Business Units	Direct GHG emission source
		All Business Units	Stationary combustion (Diesel oil for backup generators)
			Fugitive emissions (Refrigerant leakage from air conditioning and refrigeration units)
			Fugitive emissions (Septic tanks)
	Indirect GHG Emissions from imported energy (Scope 2)	Business Units	Indirect GHG emission source
		All Business Units	Purchased electricity
	Indirect GHG Emissions from (Scope 3): <ul style="list-style-type: none">Category 3 - Indirect GHG Emissions from TransportationCategory 4 - Indirect GHG Emissions from Products Used by an Organization	Business Units	Indirect GHG emission source
All Business Units		Employee commuting	
		Energy-related activities not included in direct emissions and energy indirect emissions	
Exclusions from Reporting Boundary: <i>(If no exclusions remove this section)</i>		Ardentec Singapore Pte Ltd excludes the GHG emissions for Categories 5 and 6 as defined under ISO14064-1:2018 which occur from sources located outside of its organisational boundaries based on evaluation of significant impact of indirect GHG emission sources and intended requirements.	
Criteria for developing the organizational GHG Inventory:		The GHG inventory has been developed based on the following principles:	

	<ul style="list-style-type: none"> Operational Control Approach: Ardentec Singapore Pte Ltd reports all emissions sources under its direct operational control, aligning with ISO 14064-1:2018. Emission Quantification Methods: (a) Direct measurement and fuel usage tracking (Scope 1); (b) Metered electricity data and grid emission factors (Scope 2); (c) Standardized calculation methodologies for Scope 3, using supplier data, employee surveys, and transportation activity data. Emission Factors & Sources: Emission factors are sourced from: IPCC AR6 Guidelines; Singapore Energy Market Authority (EMA) for electricity; Industry-recognized transportation emission factors Materiality Threshold: A 5% materiality level has been applied to ensure accuracy and completeness of reported data.
Reporting Period	1 January – 31 December 2024

Table of GHG Emissions

Location Based (Operational Boundary)		
Year 2024	/ tCO₂(e)	/ %
Direct GHG Emissions (Scope 1)	19.16	0.31
Direct Removals (Scope 1)	TBC	N/A
Indirect GHG Emissions from imported energy (Scope 2)	5,338.56	86.56
Indirect GHG Emissions from (Scope 3)	809.86	13.13
Total	6,167.58	100 %
CERs offset	1210	
RECs offset	387.28	
Residual emissions	4570.30	